Conell

AIR ENGINEERING

1966 INDEX OF ARTICLES

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New PRODUCTS

Combustible Gas Detector

Approval has been granted Erdco Engineering Corp. by Factory Mutual, certifying Tox-Ex Model 03HCS combustible gas detector to be intrinsically safe for Class I, Groups B, C and D hazardous atmospheres. It is the first portable gas detector to receive Intrinsic Safety Approval.

Two possible abnormal conditions were set up and tested in mixtures of 22% hydrogen in air (the most easily ignited). More than 3000 make - break, spark - producing contacts did not bring about ignition with either condition. Tests were made with 30% hydrogen in air resulting in proof that ignition was properly established within the arrestors but no flames passed through them, indicating effectiveness in preventing flash back in air mixtures of hydrogen, ethylene and natural gas.

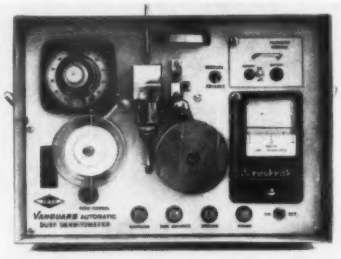
The instrument was operated for 6 consecutive 4-hour periods with each of two sets of filaments using a denatured alcohol-air mixture at approximately 50% of the LEL. The instrument gave satisfactory readings throughout.

Only 8 in. long, the unit provides continuous monitoring for spot-checking in tunnels, mines, manholes, tanks and all hazardous areas in industrial and processing plants.

Circle #49 on page 27.

Dust Densitometer

An automatic dust densitometer from Union Industrial Equipment Corp. is a continuous reading, automatic tape sampler used in air contamination studies.



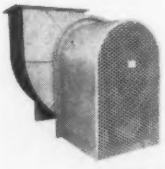
The instrument is capable of taking automatic samples of the dust content in the atmosphere at a specified time and volume. Featured in the instrument are: positive no-slip, no-tear tape drive system; continuous evaluation of tape density during sampling period; automatic flow control; plug-in modular construction for readout and telemetering facilities; and program lights to indicate phase of operation of the instrument.

The unit is housed in a 15"x11"x10" weather proof case; handles are provided for carrying the 30 lb. unit.

Circle #50 on page 27.

Reinforced Plastic Blowers

New blower units added to the Industrial Corrosion Control of Ohio, Inc.'s line of fiberglass reinforced plastic blowers range in inlet sizes from 40" to 60".



These blowers are engineered to exhaust highly corrosive fumes, abrasive dust, metal-damaging mists, and for use with fume scrubbers. Their design prevents the air stream from coming in contact with any metal. The fan shaft is also encased in a non-corrosive, airtight sleeve.

The largest unit has an exhaust capacity in excess of 75,000 cfm. The exhaust duct may be positioned to direct air from vertical to horizontal in 36 positions. All blowers are supplied complete with perforated motor cover, belt guard and drain at no additional charge.

Circle #51 on page 27.

Air Cleaners

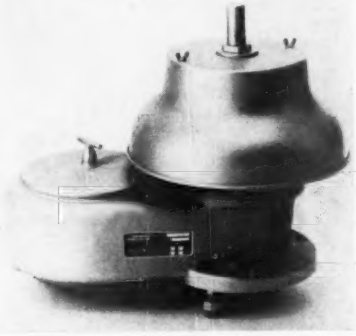
Burke & Co. has adapted the impingement strainer principle to extended area air cleaners. The design of the new air cleaners permits them to function at relatively low media velocities, thereby decreasing resistance and increasing operating life. A definite progressive loading occurs within the media. This feature, together with low media velocity, substantially precludes face loading, protects the strainer on the air exit side and ensures positive particulate arrestance and retention. A dirt retaining agent was developed especially for the air cleaner and remains effective for the full operating life of the unit. Average efficiency is 50-50%.

Circle #52 on page 27.

Breather Valve

Development of a new breather valve providing a combination of high capacity and low leakage in a lightweight, serviceable unit has been announced by Industrial Controls Division, General Precision, Inc.

The vent sets the floating seal pallet in a venturi-shaped body to provide a



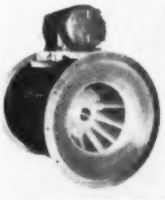
combination of increased flow with reduced blow-down and less waste potential. The vent includes a hinged pallet which deflects incoming air to feed directly into the tank. The hinge does not interfere with "pop" action and the pallet can readily be removed from the breather for inspection.

The vent is cast in low copper aluminum, minimizing chances of hydrogen sulfide corrosion and eliminating the need for epoxy coating. It is available in a range of sizes, from 2" to 12".

Circle #53 on page 27.

Inline Centrifugal Blower

Octagon Mfg. Co. has introduced a new tubular inline centrifugal blower, featuring "whisper wheels," for quiet operation. It is available in wheel diameters from 10 through 120 in., with capacities from 200 to 350,000 cfm.



It is designed to mount universally and within the system, and is available in all materials suitable for blower application. Its bearings are sized for 20,000 hours of operation, and its drives deliver 160% of rated horsepower.

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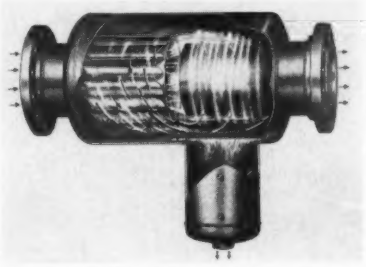
Entrainment Separators

Wright-Austin Co. has announced five new standard sizes in the company's 31L Series in-line entrainment separators



for steam, air and gas. Sizes of some models have been reduced as much as 8 in.

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